

Device Design :

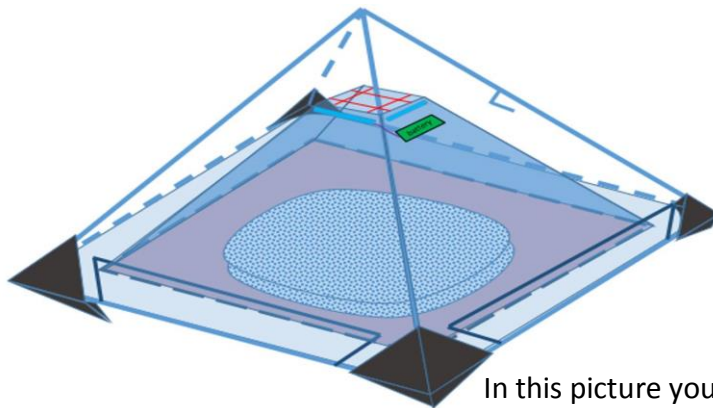
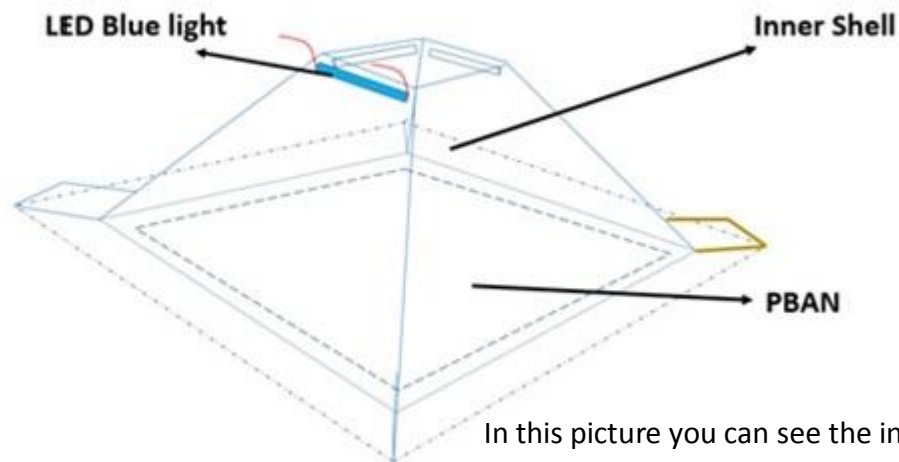
For the materials of our device, Acrylic is a polymer created when giant carbon molecules combine chemically. Finished acrylic sheet exhibits glass-like qualities – clarity, brilliance, transparency, translucence – but at half the weight and up to 10 times the impact resistance. It can be tinted or colored, mirrored or made opaque. A number of coatings can be applied to a sheet or finished part for performance enhancing characteristics such as scratch resistance, anti-fogging, glare reduction and solar reflective. Because it's a thermoplastic and softens under extremely high temperatures, acrylic can be formed to virtually any shape. Incredibly durable, acrylic is a suitable solution over a broad temperature range, and has superior weathering properties compared to other plastics.



Acrylic Sheet

For the process, we searched for some information of our factories, and handed out the design chart. We also went everywhere to buy what we need for our device.

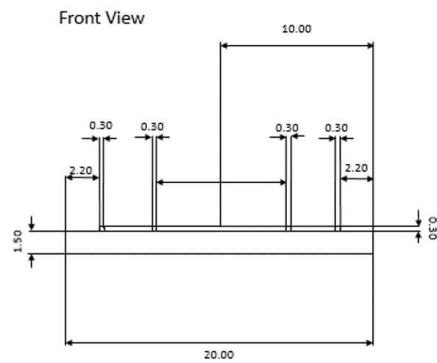
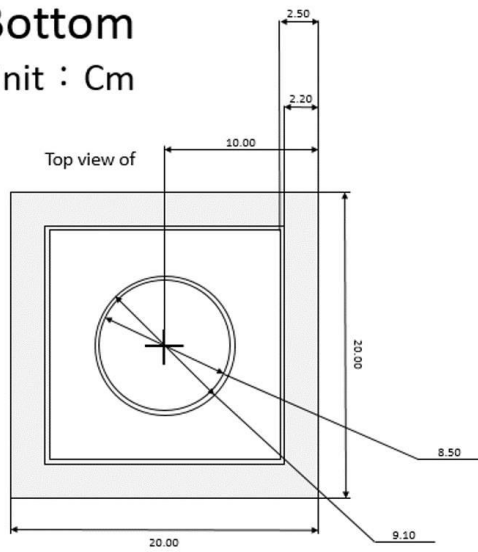
First we use PowerPoint to draw the draft. Because PowerPoint can offer us a drawing tools, we chose it to draw our draft. It did not need a lot of technique. We only have to pay attention to present the brain idea perfectly. In the figure below you can see some of the draft.



Also we use PowerPoint to double check the design. Because if the software has the problems, the manufacturers can open this file to see the right industry with map. It is very important to prevent this thing happen. In the figure below you can see some of the draft.

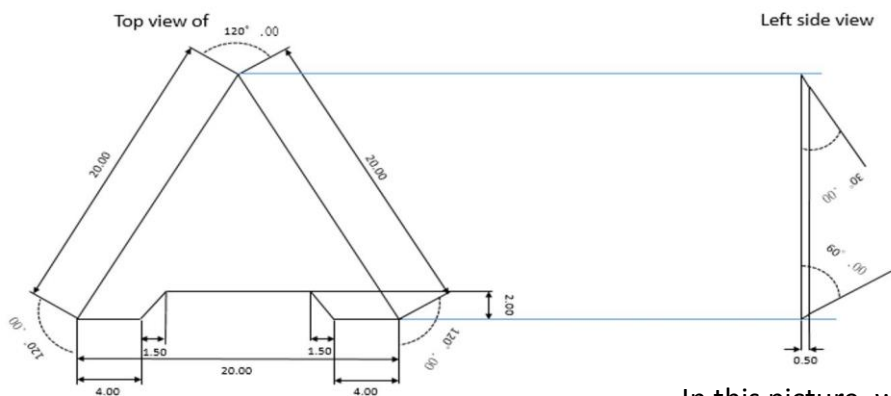
Bottom

Unit : Cm



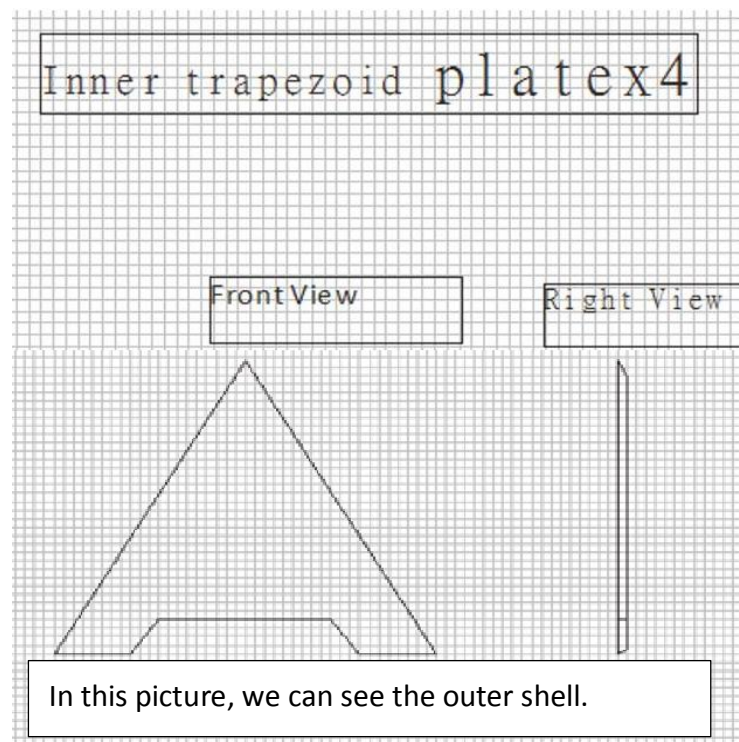
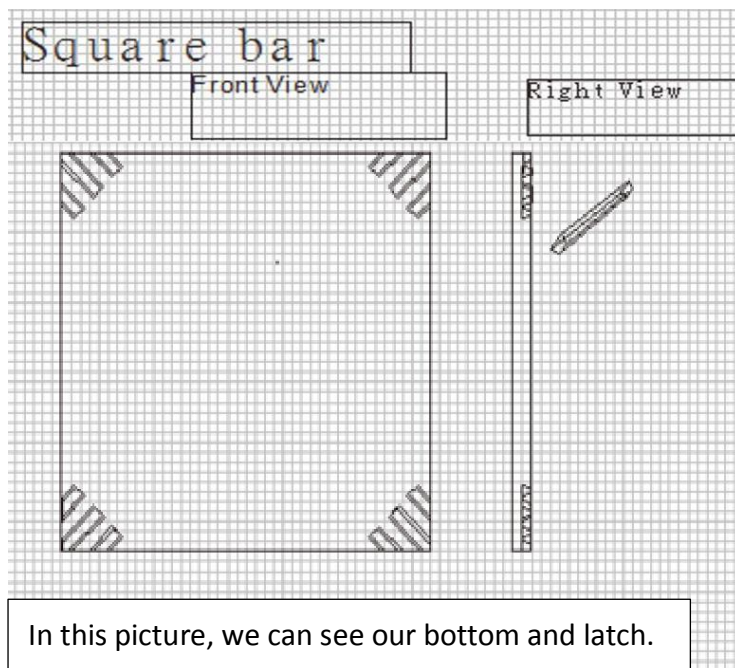
In this picture, we can see the bottom front view and overlooking view.

Side of the triangle X4



In this picture, we can see the outer shell.

Second we use one kind of graphics software “CorelDRAW” to draw the formal design picture. In this software, we can learn how to draw industry with map to cooperate with manufacturers. They usually use it to make design. So we have to learn how to use it software. In the figure below you can see some of the draft.



Now we get the acrylic models finished. We could begin to do our best to assembly and install the inner shell, bottom and outer shell. Although the latch was very expensive, we did it ourself. The blue light also assembled ourself. To do this is very interesting. Fun in welding.



